

Avian Models for 3D Applications Characters and Procedural Maps by Ken Gilliland

Songbird ReMix Flamingos

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Manual

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Songbird ReMix *Flamingos*

Introduction

"Songbird ReMix Flamingos brings to live all six species of Flamingo plus the infamous Plastic Lawn Ornament. This unique bird comes in all shades of pink to coral red. From the threatened James's Flamingo of the Andes to the Greater Flamingo of the African wetlands to the American Flamingo of the Mangrove swamps, Songbird ReMix Flamingo will definitely fulfill your needs for a pink bird.

Overview and Use

Select **Figures** in Runtime Folder and go to the **Songbird ReMix** folder. Here you'll find an assortment of files that are easily broken into 2 groups: **Conforming Parts** and **Bird Base models**. Let's look at what they are and how you use them:

- Bird Base Models
 - <F> "Flamingo" Base Model This model is used specifically for Flamingos in the Songbird Remix Series. See the "F" icon in the lower right corner? This corresponds with characters in the Pose folders. All MAT/MOR files with the "F" icon use this model. Load this model first and then the appropriate *Conforming Parts* if needed.
- Conforming Parts No conforming parts are needed for this Songbird ReMix volume. It is possible that with future add-on volumes and/or future free download Birds that they *may* be needed. (All Conforming Crests have alphanumeric icons in the lower right corners such as "C09", "C22" or "T03". This corresponds with characters in the Pose folders. All MAT/MOR files with the same icon use that particular Conforming Part. *Be sure to read this:* Most conforming parts are Crests, which cover the head part. When posing the Base Model, the Conforming Part will follow any Bend, Twist or Rotate Commands. It will not obey any SCALE or MORPH commands you give the Base Model. You must manually scale the Conforming Part and, with morphs such as "OpenBeak" or "Stretch", you must also set its counterpart in the head part of the Conforming Crest.



Conforming Crest Quick Reference





Creating a Songbird ReMix Bird

- 1. Choose what you want to load. For this example, we'll create a Flamingo species.
- Load Poser or DAZ Studio and select FIGURES and the Songbird ReMix folder. DAZ Studio users will select the "Poser Formats" → "My Library" → "FIGURES" → "Songbird ReMix".
- 3. Because all of the Flamingos use the "Flamingo" base model we'll load that.
- 4. Go to the **POSES** folder and **Songbird ReMix** Master folder, then select the appropriate Songbird Remix library. This again, for DAZ Studio users will be found in the "Poser Formats" file section.
- 5. Select one of the Flamingo Species and load/apply it by clicking the mouse on to our loaded Songbird ReMix base model. This species pose contains morph and texture settings to turn the generic model into the selected Flamingo. It will automatically apply the correct DAZ Studio material settings if you are using DAZ Studio.

Displacement in Poser 5+

In Poser, several settings will help to bring out the best in this bird set. Under "Render Settings" (CTRL+Y) make sure you check "**Use Displacement Maps**" and (in some rare cases) the "**Remove Backfacing Polys**" boxes. In some poses, the wing morphs will expose backfacing polygons which tend to render black. Clicking the "Remove Backfacing Polys" fixes this.

Scaling and Square Shadows in Poser

All the birds in this package have to scaled proportionally to DAZ 3D's Victoria and Michael models. The smallest of the included birds **MAY** render with a Square shadow or improper lighting. This is a bug in Poser. Poser can't figure out how to render a shadow for something really small, so it creates a square

shadow. The solution is to put a larger item that casts a normal Poser shadow in the scene (even if it is off camera) and the square shadows will be fixed or BODY scale the bird to a larger size.



without prop off screen



with prop off screen, lights/shadows will properly render

How to build a Songbird ReMix Character with a Conforming Crest in Poser



3. Select the Base Model and go to **POSES.** Select and apply the appropriate Character/Material pose setting for the bird you're creating.



Orange Oriole Orange Oriole ygmy Kingfis d-legged H splendent (Royal Flycatch Tropical Parul

- 1. In the Figures section, load a Bird base Model. Then load the appropriate conforming part for the bird you're trying to create.
- 2. Conform it to the bird base model.



4. The Conforming part will look wrong. That's okay—we're going to fix that now. Select the conforming part and apply appropriate Character/Material pose for the part.

5. Voila! Your bird is done. Just remember to select the bird base when posing and often there are additional morphs in the conforming part you can use.



Updates and Freebies

The Songbird ReMix series is constantly growing and improving. New morphs and additions to upcoming and future products often end up benefiting existing sets with new geometry, morphs and textures.

Songbirdremix.com always has the latest updates and additions to existing Songbird ReMix products (often months before they are updated at DAZ), plus the latest digital and real bird news, tutorials, videos, all the Field Guides, free bird characters, props and much more...

Songbird ReMix.com



How to build a Songbird ReMix Character with a Conforming Crest in DAZ Studio

In the **Runtime** folder, select **Figures** and load the Songbird ReMix Model and the appropriate Conforming Crest in Studio. Select the Conforming Crest by selecting on the screen or in the **Scene** Tab.

Now, using the "FIT TO" command in the Parameters Tab, Select the Songbird ReMix Model. Go back to the **Scene** Tab and select the Songbird ReMix Model.



Now that the bird is sized, select the conforming part and apply the conforming part character settings.

Voila! Your bird is done. Just remember to select the bird base when posing and often there are additional morphs in the conforming part you can use.



Select the Studio **Content** Folder and go to the **Animals : SBRM : !CreateYour Own : Characters** folder and select the appropriate Songbird Remix library. Apply the Character setting to the bird base. It will probably reduce the size significantly and change the shape of the bird.





Birds in Flight

Long-necked shorebirds will fly differently depending on their species; some fly with their necks out stretched while other fly with their necks bunched in a "U" shaped position. These birds often have the same neck pose when not in flight.

Flamingos fly with their necks out-stretched as shown in the image below.



In the model, when the thighs are pulled back (for flight), they appear 'lumpy'. Each Thigh section has to '**SmoothThigh4Flight**' morph to correct this. This morph is used in the provided flight poses.

Coverlets, Folded and Outstretched Wings

The folded wings often to do not depict the true markings of the bird when the wings are folded; the **Coverlet** body parts will fix this. The coverlet part has two modes with the Hide Morphs; On or off. **The Coverlets should always be** hidden when the wing fold morph is in any position other than "1". There is main controller for both Coverlets in the BODY section and separate controllers in both the left and right Coverlet parts.

Because this model is a 'generic' model that allows a large variety of birds, it not always be exact in the wing length of certain species. The **WingFold** morph does not allow the **WingLength** to be altered. The preset poses included turn the **WingLength** to "**0**" will the **WingFold** morph is used. The **WingLength** is set to "**1.5**" in the included flight poses. While the "1.5" setting is a good balance of the species included in this package, you may want to increase or reduce the wingspan to be totally accurate in your bird renders depending on species.

Songbird ReMix Flamingos Field Guide

Old World Flamingos

Greater Flamingo Lesser Flamingo

New World Flamingos

Chilean Flamingo James's Flamingo Andean Flamingo American Flamingo Plastic Lawn Flamingo

General Flamingo Facts

From Wikipedia, the free encyclopedia (edited by Ken Gilliland)

Flamingos or flamingoes are gregarious wading birds in the genus Phoenicopterus and family Phoenicopteridae. They are found in both the Western Hemisphere and in the Eastern Hemisphere, but are more numerous in the latter. There are four species in the Americas and two species in the Old World. Two species, the Andean and the James's Flamingo, are often placed in the genus Phoenicoparrus instead of Phoenicopterus.

Evolution

The prehistory of the Phoenicopteriformes is far better researched than their systematic affinities. An extinct family of peculiar "swimming flamingos", the Palaelodidae, was initially believed to be the ancestors of the Phoenicopteridae. This is now rejected, as the fossil genus Elornis, apparently a true albeit primitive flamingo, is known from the Late Eocene, before any palaelodid flamingoes have been recorded. A considerable number of little-known birds from the Late Cretaceous onwards are sometimes considered to be flamingo ancestors. These include the genera Torotix, Scaniornis, Gallornis, Agnopterus, Tiliornis, Juncitarsus and Kashinia; these show a mix of characters and are fairly plesiomorphic in comparison to modern birds. (The supposed "Cretaceous flamingo" Parascaniornis is actually a synonym of Baptornis and not a close relative to any living bird). There exists a fairly comprehensive fossil record of the genus Phoenicopterus. The systematics of prehistoric Phoenicopteriformes known only from fossils is as followed:

• Palaelodidae

- Adelalopus (Borgloon Early Oligocene of Hoogbutsel, Belgium)
- Palaelodus (Middle Oligocene -? Middle Pleistocene)
- Megapaloelodus (Late Oligocene Early Pliocene)

• Phoenicopteridae

- Elornis (Middle? Eocene Early Oligocene) includes Actiornis
- Phoenicopteridae gen. et sp. indet. (Camacho Middle? Late Miocene? of San José, Uruguay)[2]
- Prehistoric species of Phoenicopterus:
 - Phoenicopterus croizeti (Middle Oligocene Middle Miocene of C Europe)
 - Phoenicopterus floridanus (Early Pliocene of Florida)
 - Phoenicopterus stocki (Middle Pliocene of Rincón, Mexico)
 - Phoenicopterus copei (Late Pleistocene of W North America and C Mexico)
 - Phoenicopterus minutus (Late Pleistocene of California, USA)
 - Phoenicopterus aethiopicus

Relations

The identity of the closest relatives of the flamingos is a rather contentious issue. A wide variety of birds have been proposed as their closest relatives, on a wide variety of evidence. To reflect the uncertainty about this matter, flamingos are generally placed in their own order. Recent molecular and anatomical studies have suggested a relation with grebes.

Traditionally, the long-legged Ciconiiformes, probably a paraphyletic assemblage, have been considered the flamingos' closest relatives and the family was included in the order. Usually the ibises and spoonbills of the Threskiornithidae were considered their closest relatives within this order. Earlier genetic studies, such as those of Charles Sibley and colleagues, also supported this relationship. Relationships to the waterfowl were considered as well, especially as flamingos and waterfowl are parasitized by feather lice of the genus Anaticola, which are otherwise exclusively found on ducks and geese. Other scientists proposed flamingos as waders most closely related to the stilts and avocets, Recurvirostridae. The peculiar presbyornithids were used to argue for a close relationship between flamingos, waterfowl, and waders, but they are now known to be unequivocal waterfowl with a peculiarly derived morphology paralleling waders and flamingos.

Genetic studies since 2004 have identified a major clade of birds, which has been named the Metaves. This group contains includes flamingos and grebes, as well as the hoatzin, pigeons, hummingbirds, and the sunbittern. Most of these groups have been difficult to place on the family tree of birds. Relations within this group are somewhat unclear, and it has been suggested that this clade is based on molecular convergence.

Morphological evidence also strongly supports a relationship between flamingos and grebes. They hold at least eleven morphological traits in common, which are not found on other birds. Many of these characteristics have been previously identified on flamingos, but not on grebes. The fossil Palaeodids can be considered evolutionarily and ecologically, intermediate between flamingos and grebes.

For the grebe-flamingo clade, the taxon Mirandornithes ("miraculous birds" due to their extreme divergence and apomorphies) has been proposed. Alternatively, they could be placed in one order, with Phoenocopteriformes taking priority.

Diet

Flamingos filter-feed on brine shrimp. Their oddly-shaped beaks are specially adapted to separate mud and silt from the food they eat, and are uniquely used upside-down. The filtering of food items is assisted by hairy structures called lamellae which line the mandibles, and the large rough-surfaced tongue. The flamingo's characteristic pink coloring is caused by the beta carotene in their diet. The source of this varies by species, but shrimp and blue-green algae are common sources; zoo-fed flamingos may be given food with the additive canthaxanthin, which is often also given to farmed salmon. Flamingos produce a milk-like substance (similar to pigeon milk) due to the action of a hormone called prolactin. It contains more fat and less protein than the latter does, and it is produced in glands lining the whole of the upper digestive tract, not just the crop. Both parents nurse their chick, and young flamingos feed on this milk, which also contains red and white blood cells, for about two months until their bills are developed enough to filter feed.

Appearance

Flamingos often stand on one leg. The reason for this behavior is not fully known. A leg is tucked beneath the body, because the flamingo like some other animals has the ability to have half of its body go into a state of sleep, and when one side is rested, the flamingo will swap leg and then let the other half sleep, but this has not been proven. It is often suggested that this is done in part to keep the legs from getting wet, in addition to conserving energy. As well as standing in the water, flamingos may stamp their webbed feet in the mud to stir up food from the bottom. Recent research has indicated that standing on one leg may allow the birds to conserve more body heat, given they spend a significant amount of time wading in cold water.

Young flamingos hatch with grey plumage, but adults range from light pink to bright red due to aqueous bacteria and beta carotene obtained from their food supply. A well-fed, healthy flamingo is more vibrantly colored and thus a more desirable mate. A white or pale flamingo, however, is usually unhealthy or malnourished. Captive flamingos are a notable exception; many turn a pale pink as they are not fed carotene at levels comparable to the wild. This is changing as more zoos begin to add prawns and other supplements to the diets of their flamingos.

Common Name: Greater Flamingo Scientific Name: Phoenicopterus roseus

Size: 43 ¹/₂ - 59 inches (110-150 cm)

Habitat: Eurasia and Africa; from West Africa eastward throughout the Mediterranean to South West and South Asia, and throughout sub-Saharan Africa. Its preferred habitat is shallow, salty lagoons and lakes.

Status: Least Concern. **Global population**: 550,000-680,000. The Palearctic population (including West Africa, Iran and Kazakhstan) is estimated to number between 205,000 and 320,000, the South West and South Asian populations combined at 240,000, and the sub-Saharan African populations between 100,000 and 120,000. The Palearctic population appears to be increasing, while the Asian and sub-Saharan African populations appear to be stable.

The species suffers from low reproductive success if exposed to disturbance at breeding colonies from tourists, low-flying aircraft and especially all-terrain vehicles), or if water-levels surrounding nest-sites lower (resulting in increased access to and therefore predation from ground predators such as foxes and feral dogs). The lowering of water levels in lakes can also lead to hyper-salinity which may affect food resources. Other threats to the species's habitat include effluents from soda-ash mining pollution from sewage and heavy metal effluents from industries. The species also suffers mortality from lead poisoning (lead shot ingestion) collisions with fences and powerlines, and from diseases such as tuberculosis, septicemia8 and avian botulism. In Egypt large numbers of adults are shot or



captured to be sold in markets, and egg collecting from colonies occurs in some areas (this may become a threat).

Diet: Crustaceans (primarily brine shrimp (*Artemia salina*)), mollusks, annelid worms, larval aquatic insects, small fish, adult terrestrial insects (e.g. water beetles, ants), the seeds or stolons of marsh grasses, algae, diatoms and decaying leaves.

Nesting: The species nests in large dense colonies on mudflats or islands of large water bodies, occasionally also on bare rocky islands, with a distance between neighboring nests of between 20 and 50 cm. The nest is usually an inverted cone of hardened mud with a shallow depression on the top (alternatively it may be a small pile of stones and debris when mud is not available).

Cool Facts: The Greater Flamingo is the most widespread Flamingo. Flamingos ingest mud in order to extract organic matter (e.g. bacteria).

In Ancient Rome, flamingo tongues were considered a delicacy

Common Name: Lesser Flamingo **Scientific Name:** *Phoenicopterus minor*

Size: 39 inches (99 cm)

Habitat: Africa and Asia; Found in Africa (Great Rift Valley) to Northwest India. Its preferred habitat is shallow, salty lagoons and lakes.

Status: Near Threatened. Global population:

Unknown. Scientists have discovered that flamingos are dying by the thousands along the Great Rift Valley lakes of Kenya and Tanzania. However, they are baffled as to the reason. Possible causes include avian cholera, botulism, metal pollution, pesticides or poisonous bacteria, say researchers. Also, fears for the future of this species have been raised by plans to pipe water from one of their key breeding areas, the shores of Lake Natron. The lakes are crucial to the birds' breeding success because the flamingos feed off the blooms of cyanobacteria that thrive there.

Diet: Blue-green algae (Spirulina spp., Oscillatoria spp. and Lyngbya spp.) and diatoms (Navicula spp., Bacillariophyceae). To a lesser extent the species will also take small aquatic invertebrates such as rotifers (Brachiomus spp).

Nesting: It breeds in huge colonies of many thousands of pairs on large, undisturbed alkaline and saline lakes or coastal lagoons, usually far out from the shore. The timing of breeding varies geographically and pairs may not breed every year. It is adapted to respond to local environmental changes in sites by moving elsewhere, and thus depends on a network of suitable areas.

Cool Facts: The Lesser Flamingo is the most numerous Flamingo in the world. Lesser flamingos eat an estimated 60 g (2.1 oz.) dry weight to fulfill their daily food requirements.



Through slow-motion photography, researchers discovered that these birds pump water through their bills 20 times a second to filter their food.

Common Name: Chilean Flamingo **Scientific Name:** *Phoenicopterus chilensis*

Size: 43 ¹/₂ - 51 inches (110-130 cm)

Habitat: South America; Found in temperate areas of southern South America (Bolivia, Argentina, Chile and erratically in Paraguay with a few wintering in Uruguay and south-east Brazil, and vagrants in Ecuador and the Falkland Islands (Malvinas)). It occurs on coastal mudflats, estuaries, lagoons and salt-lakes at elevations up to 4,500 m.

Status: Near threatened. Global population:

200,000 and decreasing. It has probably been subject to intensive egg-harvesting since the arrival of humans in South America and, in recent years, egg-collectors have been responsible for the partial or complete failure of colonies in Bolivia. Mar Chiquita (Argentina), perhaps the most important breeding site, is threatened by abstraction of water for irrigation projects. Mining has wrought extensive habitat alteration, and the species also suffers from hunting and tourism-related disturbance.

Diet: Insects, aquatic invertebrates, small fishes and algae.

Nesting: Breeding habitat is typified by the presence of suitable salinities and islands with extensive surrounding mudflats - conditions that do not occur each year.

Cool Facts: Chilean flamingos have shallow-keeled bills and feed on insects, aquatic invertebrates, and small fishes.



Common Name: Puna or James's Flamingo **Scientific Name:** *Phoenicopterus jamesi*

Size: 35 ½ inches (90-92 cm)

Habitat: South America; Found in small range in the Andes, from the southern tip of Peru through western Bolivia and northwestern Argentina to northern Chile It is found mainly on saline lakes in the high Andean plateaus, where it feeds mainly on diatoms, but it is also a partial elevational migrant which moves to lower altitude lakes in the non-breeding season.

Status: Near threatened. **Global population**: 100,000 and decreasing. Up until 1986, egg collection and hunting were intensive. Loss and degradation of the habitat of the flamingo have also contributed to its decline, including the pollution and diversion of streams feeding the salt lakes. Also, levels of diatoms may be affected by climate change to the detriment of flamingo food resources. Mining activity and the associated demand for water, as well as tourism are further threats to some wetlands.

Following the massive declines of the 20th century due to egg collection and hunting, two guards on motorcycles were employed in 1987 to protect the flamingos at the Laguna Colorada colony in Bolivia. Additionally, in 1984 a program began to protect the birds of northern Chile from mining activities. Now, young are ringed in their first year, and breeding colonies are monitored and guarded

Diet: Algae and diatoms (phytoplankton)

Nesting: It breeds on islands or islets of soft clay or sand, as well as along the



shorelines of salt lakes. Until 1957, the breeding grounds of the James's flamingo had not been located. It is now known that puna flamingos gather at nest sites in colonies of thousands of pairs, sometimes mixing with the Chilean and Andean flamingo. These large gatherings of birds display collectively for a long time surrounding the breeding period, although pair bonds appear to form during these displays. Pairs build a truncated cone of mud topped with a shallow bowl in which the female lays a single egg. Breeding will only take place if the water level of the lake is neither too high nor too low. Incubation of the egg is shared between the male and female. Once the chick begins to hatch, the adults may help it to escape from its shell. The bill of the chick is straight at first, but soon gains its characteristic down-curve. The chick spends up to 12 days in the nest after hatching. It becomes darker grey in color after leaving the nest but will not achieve full adult plumage until three to four years of age.

Cool Facts: James's flamingo migration is poorly understood, but flocks are known to leave higher altitude breeding grounds at the end of summer, possibly to move to lower altitudes. However, some birds remain at the breeding site as the hot springs in the area prevent the lakes from freezing in the cold weather.

While the James's Flamingo may look similar and nest with other South American Flamingos, it is distinctive; Chilean Flamingo is pinker, with a paler and longer bill while the Andean Flamingo is larger showing more black in wings and bill and has yellow legs.



Common Name: Andean Flamingo Scientific Name: Phoenicopterus andinus

Size: 40 – 43 ½ inches (102-110 cm)

Habitat: South America; Found in the high Andes of Peru, Chile, Bolivia and Argentina. Preferred habitat is salt and alkaline lakes at altitudes of between 2,300 – 4,500 m above sea level. It may be nomadic in search of temporally patchy food supplies (mainly diatoms).

Status: Vulnerable. **Global population**: 34,000 and decreasing. It is estimated that the population of Andean flamingos has declined by as much as 24% since

the mid-1980s. In the mid-20th century the collection of eggs was widespread and thousands were collected annually, with devastating results. Habitat deterioration in the form of mining activities and falling water levels, due to drought, also has played a part in the decline of this species.

The Andean flamingo is protected by its listing on Appendix II of the Convention on International Trade in Endangered Species (CITES) and Appendix I of the Convention on Migratory Species (CMS). Breeding occurs in Salinas and Aguada Blanca Nature Reserve (Peru), in Salar de Atacama National Flamingo Reserve (Chile), in Las Chinchillas Provincial Natural Reserve (Argentina) and Eduardo Avaroa National Faunal Reserve (Bolivia). Conservation actions include habitat management, prevention of egg-collecting and raising public awareness.

Diet: Algae and diatoms (phytoplankton)

Nesting: They breed together in colonies, between December and February. Usually only a single egg is laid, and breeding success appears to be low.

Cool Facts: This particular flamingo is long-lived; reaching up to 50 years of age. Flocks of Andean flamingos may be partly nomadic, searching for their inconsistent food supply of algae.



A self-sustaining captive population of Andean flamingos exists at the Wildfowl and Wetlands Trust at Slimbridge in the UK. These birds provide useful research subjects into behavioral aspects of this species.

Andean miners kill Andean flamingos for their fat, believing it to be a cure for tuberculosis. The Moche people of ancient Peru worshipped nature, placing an emphasis on animals and often depicted flamingos in their art.

Common Name: American or Caribbean Flamingo **Scientific Name:** *Phoenicopterus ruber*

Size: 43 ¹/₂ - 46 inches (110-120 cm)

Habitat: Central America; Found in the Caribbean, Florida, Columbia, Venezuela and the Galapagos Islands. Its preferred habitat is shallow, salty lagoons and lakes.

Status: Least Concern. **Global population**: 800,000-880,000. Development, human disturbance, and habitat loss threatens the coastal Caribbean wetlands on which this flamingo depends. The population remains very large and is actually believed to be increasing overall. In 2007, a network of insitu and ex-situ conservation initiatives was established by the Caribbean Alliance for Flamingo Research and Conservation, to ensure the protection and conservation of the Caribbean flamingo. This includes a range of research and conservation activities coordinated across several countries that fall within the species' range.

Diet: Crustaceans, mollusks, aquatic insects, polychaete worms, and algae. Whereas smaller flamingos and other wading birds are restricted to the shallows, the Caribbean flamingo's great size enables it to wade out into relatively deep water. It rarely takes food from the surface, but instead generally feeds with its whole head submerged underwater. Flamingos will feed at day and night.

Nesting: Males are larger than females, but otherwise the same in appearance. American flamingos reach sexual maturity at about 6 years of age. Breeding can occur in any season, and a flamingo may breed twice in a year. Breeding and nest building may depend on rainfall and its effect on food supply. American flamingos perform structured preening when courtship begins. Group courtship displays are typical of this flamingo, with thousands of individuals raising their



wings, turning their heads, or bowing their necks in spectacular synchrony. Engaging in these displays ensures that all members of the colony are ready to mate at the same time. Birds interested in each other will call to one another in unison. Male and female bounding is very strong during breeding season. American flamingos may mate with more than one partner.

A flamingo's nest is made of mud, stones, straw and feathers and may be as high as 12 inches. Both sexes are involved in building the nest from bits of mud piled into a smooth cone, and spaced just beyond pecking distance of other pairs' nests. A single egg is laid on the top of a tall mound. At hatching the youngster is covered with white down which turns gray in approximately 3 weeks. Young flamingos leave the nest after five days and form groups. But the young will return to the nest to feed on fluid produced in the digestive system of the parents. The adult dribbles this fluid from its mouth into the youngster's bill. After about two weeks, the young start to find their own food.

Cool Facts: The Caribbean Flamingo is the brightest of the Flamingos. This species, with the exception of its black wing flight feathers, varies from bright red to pale pink. This color is based on region and the available food supplies. Chemicals in the crustaceans and algae are what gives the flamingo its pink color; without a crustacean (shrimp) rich diet flamingo feathers are white. For example, flamingos of the Caribbean area have coral red feathers, and South American flamingos have pinkish white feathers.

American flamingos are waders and good swimmers. They congregate in large flocks. Flamingo vocalizations range from nasal honking to growling. Specific calls can be associated with certain behaviors. Vocalizations are used in parents chick recognition.

Common Name: Plastic Lawn Flamingo **Scientific Name:** *Phoenicopterus festuca plasticus*

Size: 52 inches (132cm)

Habitat: North America; in the southern United States and in the west (Los Angeles). Found on suburban lawns.

Status: Least Concern. **Global Population:** 1,000,000+. The persistent threat of the change in cultural tastes may someday bring this species closer to extinction.



Diet: Unknown. Lawn Flamingos do not appear to feed.

Nesting: Lawn Flamingos do not nest; they rely on companies such as Union Products for their reproduction.

Cool Facts: The history of the pink flamingo can be traced back to 1946 when a company in Leominster, Massachusetts called Union Products started manufacturing products they titled "Plastics for the Lawn". Their original collection included two dimensional dogs, ducks, frogs, and even a flamingo.

In 1956, the company hired a

young designer named Don Featherstone. Don's first project was to redesign their popular duck into the third dimension. Don used a live duck as his model and after five months of work, the duck was retired to a local park.

His next project would prove to be his most famous. He couldn't get his hands on real flamingos, so he used photographs from a National Geographic in its place. He sculpted the original out of clay, which was then used to make a plaster cast. The plaster cast, in turn, was used to form the molds for the plastic. The original design called for detailed wooden legs, but they proved to be too costly and were

replaced by the metal ones still seen today. While the exact date was never recorded, the first pink flamingo was born some time during 1957.

Since then it has become an icon of pop culture, and won Don Featherstone a Nobel Prize for Art in 1996.

After the release of John Waters's 1972 movie "Pink Flamingos", plastic flamingos came to be the stereotypical example of lawn kitsch.

Many imitation products have found their way onto front lawns and store shelves since then; those "official" pink flamingos made by Union Products from 1987 (the 30th anniversary of the plastic flamingo) onward can be identified by the signature of Don Featherstone located on the rear underside of the flamingo. These official flamingos were sold in pairs, with one standing upright and the other with its head low to the ground, "feeding". Union Products, of Leominster, Massachusetts, stopped production of pink flamingos on November 1, 2006. However, HMC International LLC, a subsidiary of Faster-Form Corporation, purchased the copyright and plastic molds of Featherstone's original plastic flamingos in 2007, and will be resuming production of them in Westmoreland, New York.

In a famous 1979 prank by the Pail and Shovel Party, then controlling the Student Government Association at the University of Wisconsin–Madison, the slope of Bascom Hill was covered with over 1000 plastic flamingos the morning of the first day of classes. The book "If at All Possible, Involve a Cow: The Book of College Pranks" used a photo of the flamingoes on its cover. In 2009, the city of Madison, Wisconsin Common Council designated the plastic flamingo as the city's official bird.

Special Thanks to...

....my beta testers (Bea, Jan, Kelvin, Nancy, Rhonda, Sandra and Walter)

Species Accuracy and Reference Materials

Many birds of the same species do vary considerably in color. This package tries to emulate the colors and markings in the most commonly found variants.

The author-artist has tried to make these species as accurate to their real life counterparts as possible. With the use of one generic model to create dozens of unique bird species, some give and take is bound to occur. The texture maps were created in Painter with as much accuracy as possible. Photographic references from photographs from various Internet searches and several field guides were used.

Field Guide Sources:

- "The Sibley Guide to Birds" by David Allen Sibley
- Wikipedia (<u>http://www.wikipedia.com</u>)
- Birdlife International (<u>http://www.birdlife.org</u>)
- Flamingo Resource Centre (<u>http://www.flamingoresources.org/</u>)

Other Resources:

- Songbird ReMix Central (<u>http://www.songbirdremix.com</u>)
- Songbird ReMix "Bird Brains" User Group and Forum (<u>http://artzone.daz3d.com/groups/songbirdremix</u>)

Rendering Tips

In POSER 5+...

In Poser, several settings will help to bring out the best in this bird set.

Under "Render Settings" (CTRL+Y) make sure you check "**Use Displacement Maps**" and (in some rare cases) the "**Remove Backfacing Polys**" boxes. In some poses, the wing morphs will expose backfacing polygons which tend to render black. Clicking the "Remove Backfacing Polys" fixes this.



In VUE...

Vue has trouble with back-facing polygons which tend to show-up in certain wing and "Fluff" poses. The easiest and fast solution is to limit the amount of bending in the Forearm, Hand and Feather controllers and the hide or limit the 'Fluff' used

Bake it! The better (but much slower solution) is to in "Polygon Mesh Options", **bake the model**. You might also click "Force double-sided baking" as well as playing with the Max smoothing angle and checking Dynamic Subdivison. Put Quality boost into the + area. Then bake it—"baking" will take hours on most computers.

The "Eye" material uses a Poser reflection map; since Vue has a built-in environment, it's better to use the Vue one and cut down the reflection to 20-50% depending on light in the scene.

I also often find in better to also cut down the "Highlight Global Intensity" to 40% and "Highlight Global Size" to 50% on Plumage, Wings and Beak materials in the "Highlights" section.

